







Alternate Service Tubes

- Copper
- PET
- Q-LINE
- PEP
- PVC
- Galvanize Iron Pipe
- Lead Service Pipe

Tracing Plastic Piping and Plastic Service Lines

- Have determined tracing to be the biggest drawback to using plastic systems because of the introduction of electrical products into municipal applications
 - Different technology entirely and not well understood.
 - Electrical connectors used not necessarily suited.
 - Any break in the connection nullifies use.



A Complete Tracer Wire System

THE INTELLIGENT CHOICE FOR LOCATING UNDERGROUND UTILITIES

Your home for the only "Complete Tracer Wire System" available on the market today!

The system includes Copperhead tracer wire, SnakePit and Cobra T3 test stations, grounding anodes, SnakeBite locking connectors, and the ViperMag locator. You get end-to-end reliability which helps you pinpoint the exact location of the underground utility.

The Complete System Includes:

- ✓ Copperhead Tracer Wire
- ✓ SnakePit Test Stations
- ✓ Grounding Anodes
- ✓ SnakeBite Locking Connectors
- ✓ ViperMag Locator

Check our online catalog for the complete system by clicking below.

<http://viewer.epaperflip.com/Viewer.aspx?docid=b93c57db-c7d3-4d30-b5b5-a23c010e0d05>

Open Cut / Open Ditch • Directional Drill / Boring • Pipe Bursting



Copperhead Tracer Wire



Grounding Anode



SnakePit Test Station



SnakeBite Connectors



ViperMag Locator

ViperMag Locator

ONLY LOCATOR ON THE MARKET TODAY WITH METAL DETECTOR AND LOCATOR IN ONE TOOL!



- ✓ Passive Power Locating - 60 Hz
- ✓ Active Frequencies - 512Hz, 8kHz, 83kHz
- ✓ Ferrous Metal Locating
- ✓ Push Button Depth



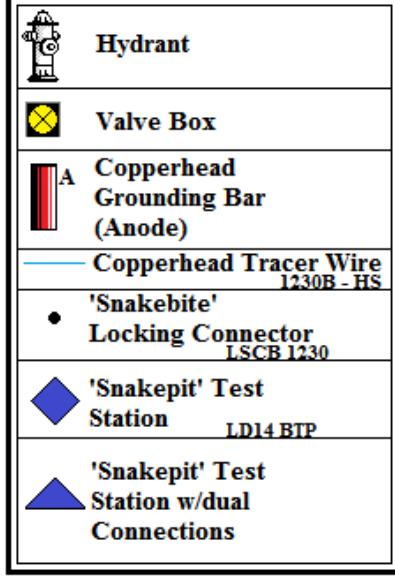
For more information on ViperMag Locator please visit our website at: www.vipermaglocator.com



Copperhead Industries, LLC

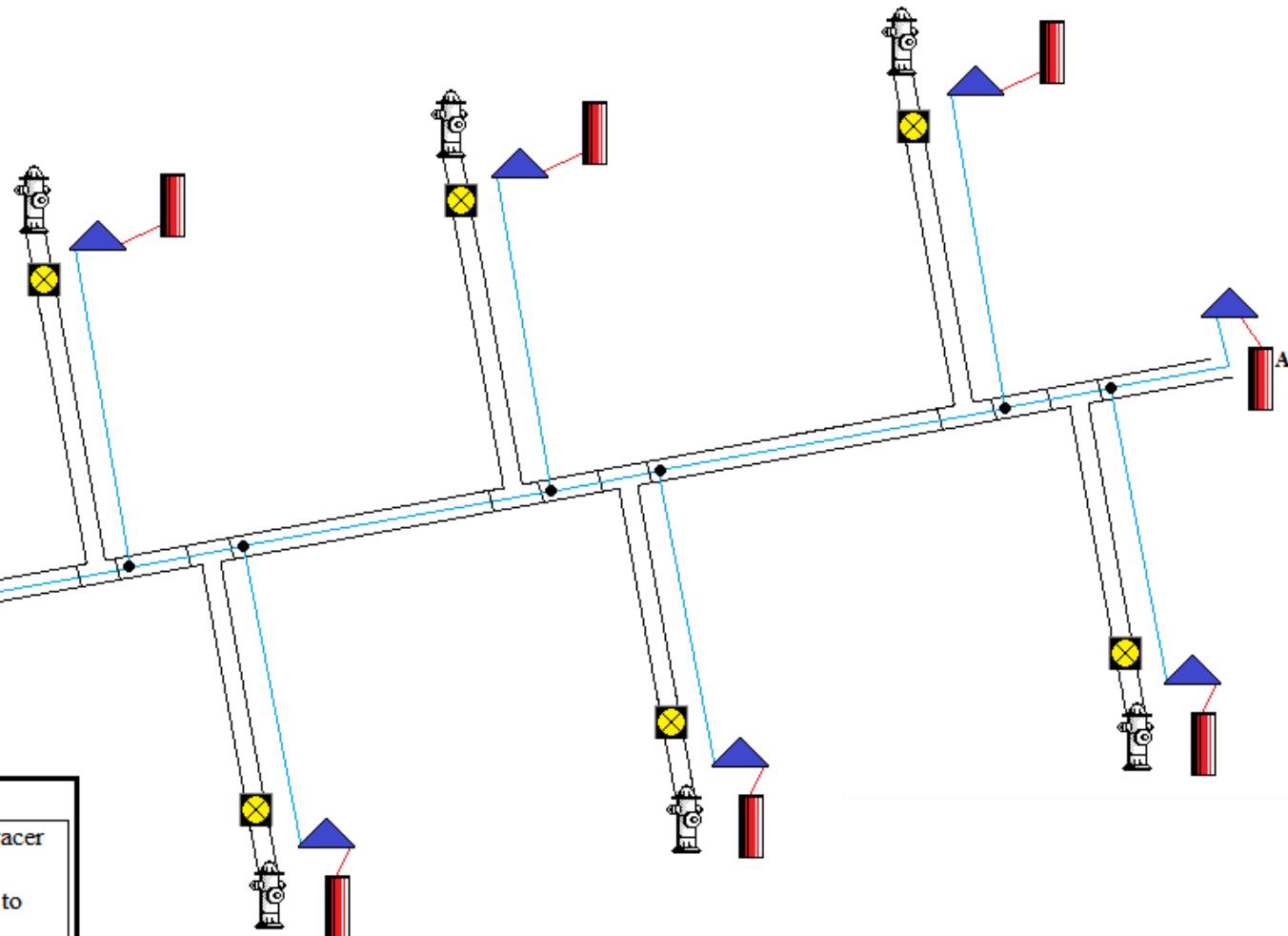
111 Thomas Park Drive • Monticello, MN 55362
Ph: 877-726-5644 • Fx: 763-271-3694 • www.copperheadwire.com



LEGEND**Description**

1. 1230B - HS continuous high strength tracer wire
2. Splice single connection on water main to hydrant lateral to hydrant location.
3. End lateral tracer wire at 'Snakepit' test station, flush with surface. Do not ground to hydrant.
4. Splice tracer wire to next continuous section along watermain, then make next connection at next hydrant lateral to hydrant location, etc...
5. Install groundbar at each of the line ends using 'Snakepit' connector with dual connectors and shunt. Connect shunts when testing.

Tracer Wire Installation - Open Trench





COPPERHEAD COMPARISON SHEET
Copperhead Reinforced Tracer Wire (Copper Clad Steel) vs. Solid Copper

SIZE	#14 AWG		#12 AWG		#10 AWG	
Conductor Construction	CCS	Solid CU	CCS	Solid CU	CCS	Solid CU
Conductor OD	0.0641	0.0641	0.0808	0.0808	0.1019	0.1019
Insulation Material	HDPE	THHN (nylon)	HDPE	THHN (nylon)	HDPE	THHN (nylon)
Insulation Thickness	.030"	.012"	.030"	.012"	.030"	.012"
Nominal OD	.124"	0.088	.141"	0.105	.162"	0.133
Nom DC Resistance /1000ft (Ohms)	12.0270	2.5241	7.564	1.5885	4.756	0.9987
Weight per 1000 feet (lbs)	15.5	16.8	22	25.4	32.5	38.9
Breaking Load in lbs	282	112	452	180	684	285
Impact Force in - lbs**	42		67.4		107.5	
Copperhead Part Number	1430*-HS- 500', 1000', & 2500'		1230*-HS- 500', 1000', & 2500'		1030*-HS- 500', 1000', & 2500'	
Spool sizes available						

* Denotes Color: Y=Yellow, B=Blue, R=Red, K=Black, N=Orange, G=Green, P=Purple

** Measured with a falling weight (shovel simulation) tester; modeled from Gardner Impact Tester (ASTM D5420)

COPPERHEAD SoloShot™ Horizontal Directional Drilling Wire Specifications

SIZE	#12 EHS	#10 EHS	#8 EHS	Xtreme 7x7
Conductor Construction	CCS	CCS	CCS	Stranded CCS
Conductor OD	0.0808	0.1019	0.1285	0.2034
Insulation Material	HDPE	HDPE	HDPE	HDPE
Insulation Thickness	.045"	.045"	.045"	.050"
Nominal OD	0.1258	0.1469	0.1735	0.2534
Nom DC Resistance /1000ft (Ohms)	7.564	4.756	2.991	2.0538
Breaking Load in lbs	1150	2032	2785	4700
Copperhead Part Number	1245*-EHS- 500', 1000', & 2500'		1045*-EHS- 500', 1000', & 2500'	
Spool sizes available				PBX-50*-Custom Spool Min. 500'
Directional Drill Wire Comparison:				
#8 Stainless Steel Break load is 1700 lbs				
#10 Stainless Steel Break load is 920 lbs				



Locks shut
(won't open during back-tightening)



No need to remove coating from wires
(less tools required, saves time and money!)



Protective dielectric sealant
(water proof and corrosion proof)



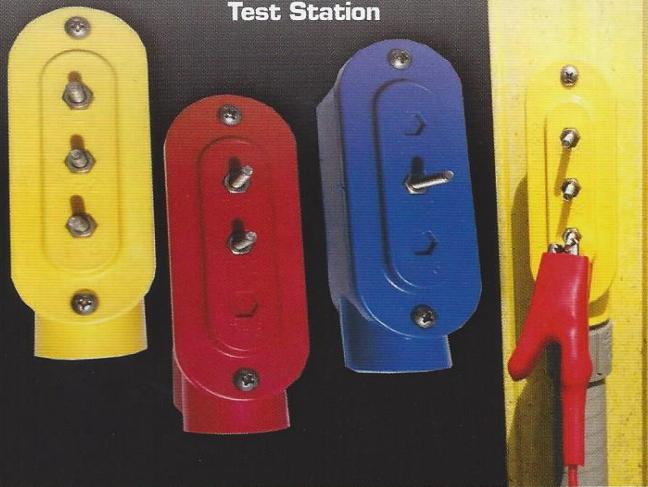
**All tracer wire connectors
are not created
equal!**

COPPERHEAD TEST STATIONS

SnakePit
Test Station



Cobra T3
Test Station



TEST STATIONS

16

SnakePit's exclusive Encapsulated Magnet System makes locating your access boxes easier by magnifying the ferromagnetic signal!

Copperhead SnakePit and Cobra Test Stations

Product Name	Part Number	Application	Description	Case Quantity	Color
Lite Duty	LD14*TP	Non-roadway applications	Light duty box, 14" length	20	YEL, BLU, GRN, PUR, ORN, RED, BLK
Lite Duty - Adjustable	LD14*TP-ADJ	Non-roadway applications	Light duty adjustable, 18 5/8" - 24"	20	YEL, BLU, GRN, PUR, ORN, RED, BLK
Lite Duty -XL	LDXL36*TP	Non-roadway applications	Light duty box, 36" length	10	YEL, BLU, GRN, PUR, ORN, RED, BLK
Concrete/Driveway	CD14*TP	Low traffic drives and driveways	Concrete/driveway box, 14" length	10	YEL, BLU, GRN, PUR, ORN, RED, BLK
Roadway	RB14*TP	High traffic roadways	Roadway box, 14" length	5	YEL, BLU, GRN, PUR, ORN, RED, BLK
Cobra T3	T1-*01	Above grade	One terminal; 1" conduit	5	YEL, BLU, GRN, PUR, ORN, RED, BLK
Cobra T3	T1-*75	Above grade	One terminal; 3/4" conduit	5	YEL, BLU, GRN, PUR, ORN, RED, BLK
Cobra T3	T3-124	Above grade	Two terminals; 1" conduit	5	YEL, BLU, GRN, PUR, ORN, RED, BLK



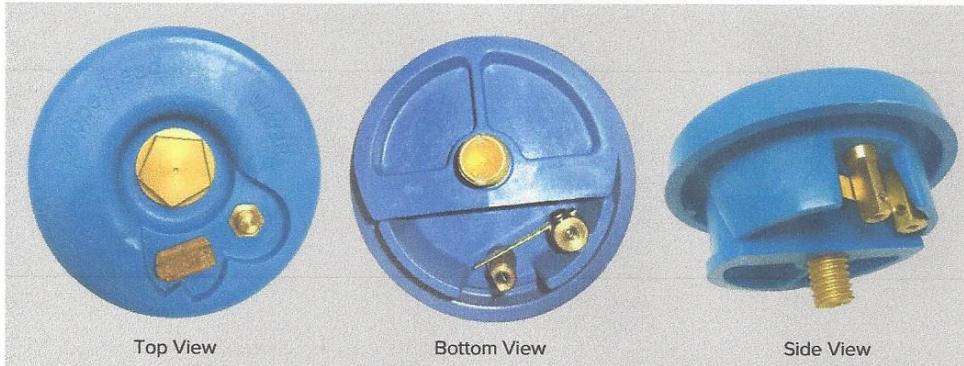
TWO-TERMINAL SWITCHABLE LID

FOR SNAKEPIT® ACCESS POINTS (LID ONLY)

APPLICATION

Lid available separately for retrofit applications – to replace existing SnakePit Access Point lids. Use to terminate tracer wire systems and provide direct connection to tracer wire and ground rod. The Two-terminal Switchable Lid allows locators to switch ground off and on from top of lid to isolate targeted sections of tracer wire systems. **No need to remove lid.** Base not included. Base with lid assemblies also available.

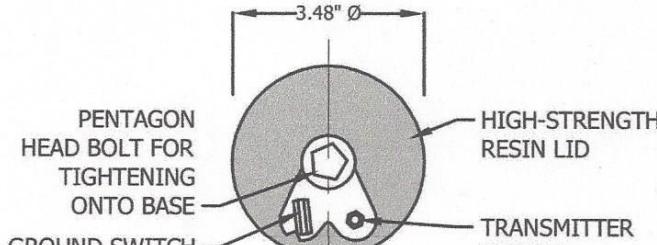
Package includes: lid, anti-corrosion gel, Allen wrench, installation instructions



Top View

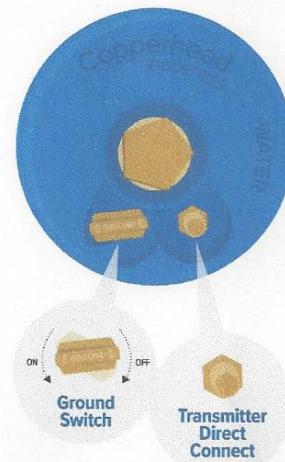
Bottom View

Side View



SP-SWLID-*2 – *SnakePit Two-terminal Switchable Lid (base not included; * denotes lid color)*

Patent Pending



FEATURES AND BENEFITS

- Once-and-done installation
- External access to ground rod means you don't have to remove lid to switch ground off and on
- Directly connect to tracer wire with utility locate transmitter





MAKE YOUR JOB EASIER WITH WIRE HANDLING EQUIPMENT FROM COPPERHEAD

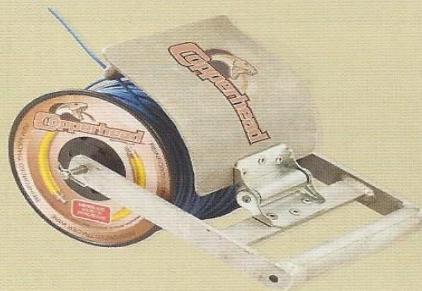
CopperCaddy



Transport and dispense wire with ease!

- ✓ Spring torque tension control to prevent wire whip
- ✓ Heavy duty pneumatic tires for ease

SnakeCharmer



Easily control wire payoff!

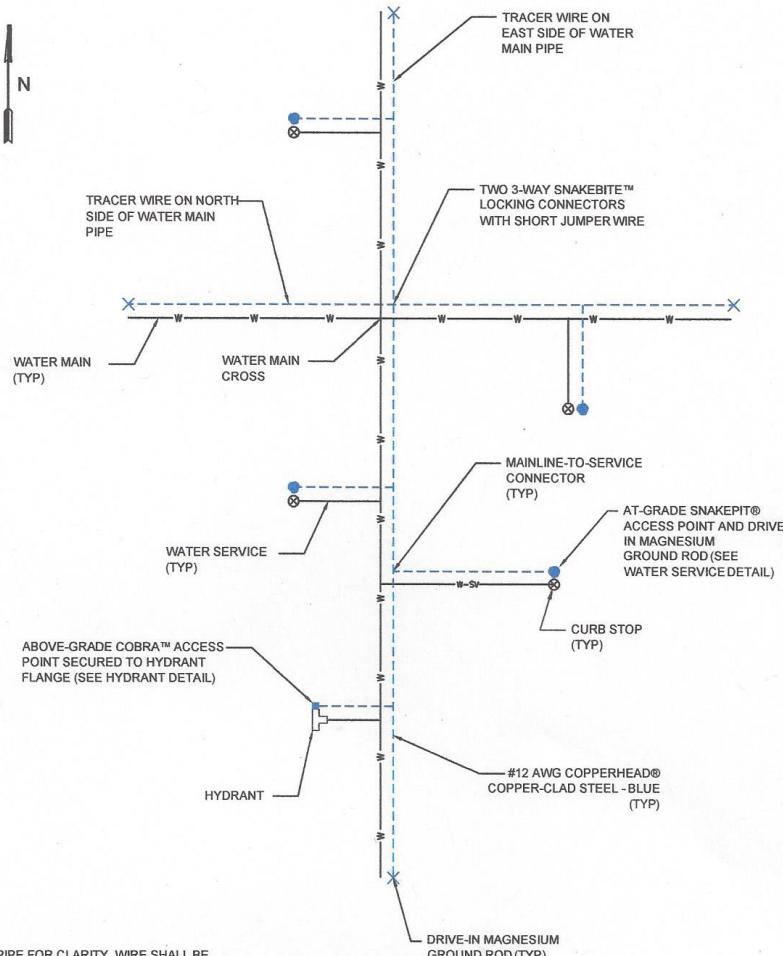
- ✓ Spring torque tension control to prevent wire whip
- ✓ Heavy duty all aluminum welded

Grounding Anodes



Installing anodes at all dead ends of the tracer wire system improves the locate signal.

Grounding a tracer wire system



NOTES:

WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.

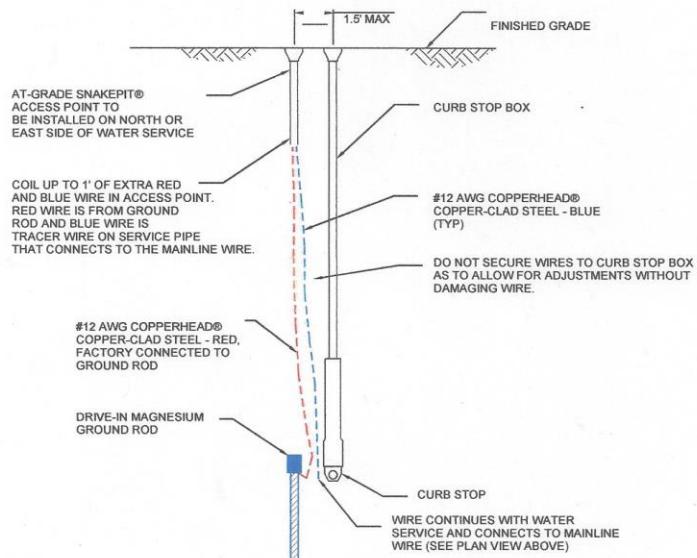
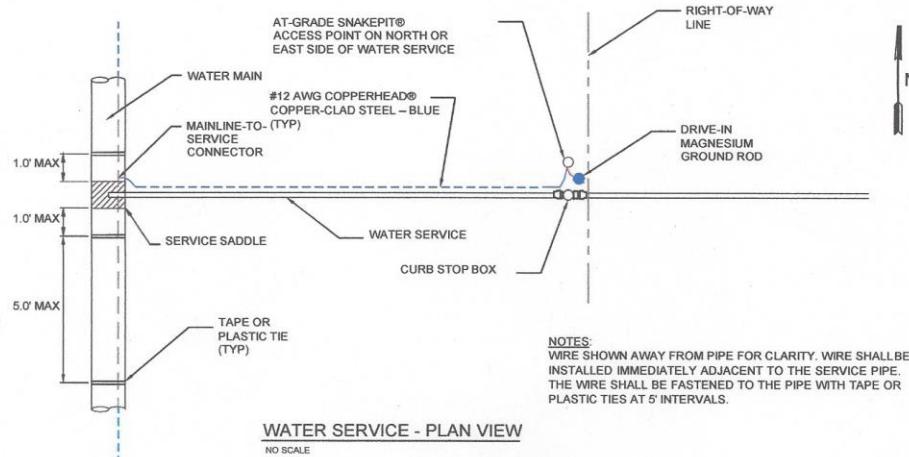
SAMPLE PLAN (WATER)

NO SCALE



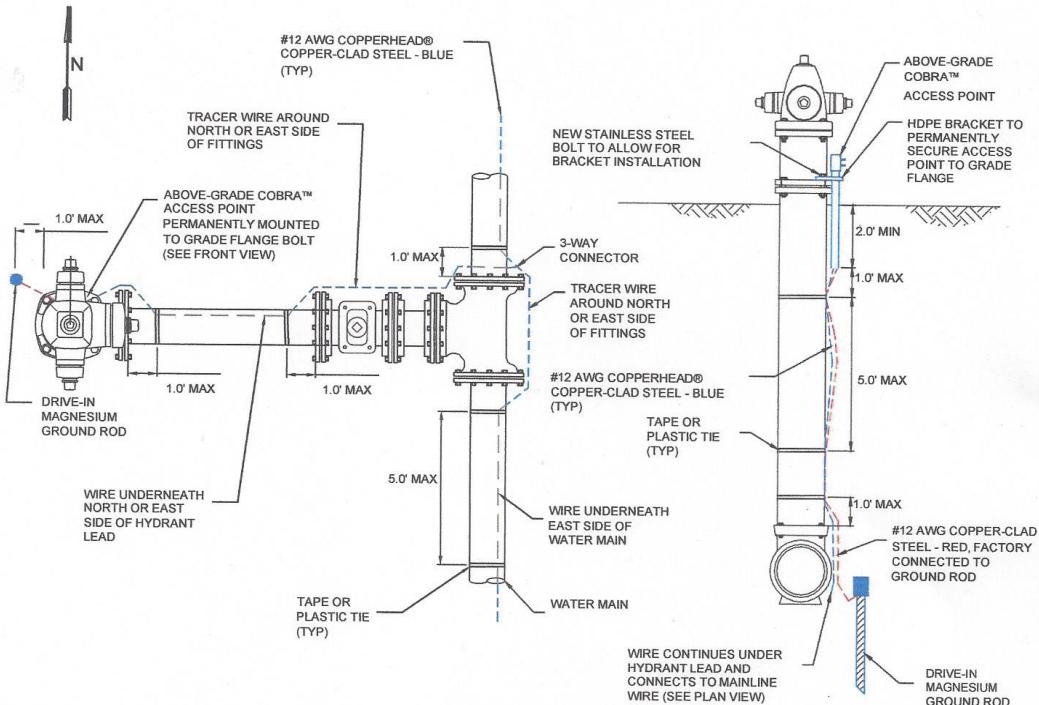
COPPERHEAD INDUSTRIES
STANDARD DETAIL

COMPLETE UTILITY LOCATING SYSTEM™
SAMPLE PLAN (WATER)



COPPERHEAD INDUSTRIES
STANDARD DETAIL

COMPLETE UTILITY LOCATING SYSTEM™
WATER SERVICE DETAIL



COPPERHEAD INDUSTRIES
STANDARD DETAIL

COMPLETE UTILITY LOCATING SYSTEM™

HYDRANT DETAIL

Questions



Thank you!

A recording of this OJT session will be available “OnDemand” for 2 weeks.

Registration is required. Approved registrants will receive an email from Zoom with the link to the recording that will require a passcode. The passcode will be provided in a separate email from admin@omwa.org.

*** Our next OJT Session will be Jun 2, 2022***

Not an OMWA W³ETAC member? JOIN TODAY!

We encourage our non-municipal friends in the water, wastewater and stormwater industry to become members and join the collaboration. For more information, please contact us at

admin@omwa.org